

**Claims**

1. Purified recombinant glycoprotein which satisfies the following properties:
  - 5 a) a capacity for adhesion to CD4;
  - b) an affinity with an anti-gp120 antibody capable of neutralizing HIV infection of cells, *in vitro*;
  - c) an affinity with an anti-gp41 antibody;
  - 10 d) a trimeric form lacking interchain disulphide bridges.
2. Glycoprotein according to Claim 1, characterized in that the glycoprotein is composed of all or part of gp160.
- 15 3. Glycoprotein according to Claim 1, characterized in that it comprises less than 50% of other protein contaminants.
4. Glycoprotein according to Claim 1, characterized in that the capacity for adhesion to CD4  
20 is at least identical to that of a gp120 of an infectious HIV.
5. Vaccine comprising the purified glycoprotein according to Claim 1, and an adjuvant.
6. Vaccine according to Claim 4, characterized in  
25 that it contains, as an HIV surface antigen, only the glycoprotein according to Claim 1.
7. Method for obtaining a glycoprotein according to Claim 1, in which, by means of genetic recombination techniques, a glycoprotein satisfying the properties  
30 a), b) and c) set out in Claim 1 is expressed, purified and subjected to steps involving at least one reducing agent, one ionic detergent and/or one neutral detergent, under conditions such that a glycoprotein satisfying the conditions set out in Claim 1 is obtained.
- 35 8. Method according to Claim 7, characterized in that the purified glycoprotein is subjected successively to a reducing agent, to an alkylating

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agent, to an oxidizing agent, to an ionic detergent and to dialysis against a neutral detergent.

9. Method according to Claim 7, characterized in that the purified glycoprotein is subjected successively to an ionic detergent, to a reducing agent, to an oxidizing agent and to dialysis against a neutral detergent.

10. Use of the glycoprotein according to Claim 1 in the implementation of a method for diagnosing, in vitro, infections caused by HIV.

Add A1  
add B1

add B2  
Abstract